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| **Table S1. Characteristics of hydroxyurea /ruxolitinib treated PV patients** |
| Patient\* | Age/gender | JAK -2 | WBC/Platelet (x109/ml) | Spleen (CM)  | HX of Thrombosis | IGF-1R  |
| 1 | 72/F | positive | 3.6/350 | 11 | N | 38.8 |
| 2 | 70/M | positive | 4.0/210 | 11 | N | 67.9 |
| 3 | 58/M | positive | 6.0/200 | 11 | N | 36.14 |
| 4 | 68/M | positive | 15.8/401 | 11 | N | 58.5 |
| 5 | 84/F | 33.6%\*\* | 13.6/896 | 11 | N | 32.6 |
| 6 | 86/F | 91% | 16.6/589 | 16 | N | 173 |
| 7 | 54/M | positive | 17.2/835 | 11 | N | 46.07 |
| 8 | 64/F | positive | 5.0/386 | 11 | N | 23.89 |
| 9 | 67/F | 44.70% | 16.8/351 | 11 | N | 141.45 |
| 10 | 65/F | positive | 9.5/426 | 15 | N | 184 |
| \*Patient 1-9 on hydroxyurea, 10 on ruxolitinib |  |  |  |
| \*\* denotes percentage of allele-burden of JAK2V617F |  |  |